

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 October 2005 (27.10.2005)

PCT

(10) International Publication Number
WO 2005/099855 A1

- (51) International Patent Classification⁷: **B01D 15/08**
- (21) International Application Number:
PCT/US2005/011526
- (22) International Filing Date: 6 April 2005 (06.04.2005)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/560,070 7 April 2004 (07.04.2004) US
- (71) Applicant (for all designated States except US): **WATERS INVESTMENTS LIMITED** [US/US]; 109 Lukens Drive, New Castle, DE 19720 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SWARTZ, Michael** [US/US]; 24 Country Road, Uxbridge, MA 01569 (US). **NEUE, Uwe, Dieter** [DE/US]; 20 Donna Lee Lane, Ashland, MA 01721 (US). **ALDEN, Peter, G.** [US/US]; 567 Carpenter Road, Whitinsville, MA 01588 (US). **FERSE, Armin, Falk-Thilo, Wolfram** [DE/DE]; Solmsstrasse 17, 10961 Berlin (DE).
- (74) Agent: **JANIUK, Anthony, J.**; Waters Corporation, 34 Maple Street, Milford, MA 01757-3696 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS AND METHODS FOR SEPARATING ENANTIOMERS

(57) Abstract: A liquid chromatography system comprising a chiral mobile phase used to separate enantiomeric molecules present in a sample is disclosed herein. In one aspect, the mobile phase comprises a chiral solvent. In another aspect, the mobile phase includes a chiral solvent but also a buffering agent. The liquid chromatography system described herein includes both high pressure liquid chromatography (HPLC) as well as high pressure capillary liquid chromatography (CapLC).

WO 2005/099855 A1